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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,234 04/04/2001		04/04/2001	Wolfgang Nikutta	GR 00 P 1667	2496
24131	7590	09/17/2004		EXAMINER	
LERNER A	AND GR	EENBERG, PA	NGHIEM, MICHAEL P		
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HOLLYWO	OD, FL	33022-2480		ARTUNIT	PAPER NUMBER
				2863	

DATE MAILED: 09/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicant(s)	
*	NIKUTTA, WOLF	GANG
	Art Unit	
	2863	

Office Action Summary

	Application No.	Applicant(s)			
	09/826,234	NIKUTTA, WOLFGANG			
	Examiner	Art Unit			
	Michael P Nghiem	2863			
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	Michael P Nghiem	2863					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	•						
1)☐ Responsive to communication(s) filed on 2a)☐ This action is FINAL. 2b)☒ This 3)☐ Since this application is in condition for allowan closed in accordance with the practice under Expression in the practice of the practice	action is non-final. ce except for formal matters, pro		e merits is				
Disposition of Claims			•				
4) ⊠ Claim(s) <u>1-12</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,11 and 12</u> is/are rejected. 7) ⊠ Claim(s) <u>4-10</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or							
Application Papers							
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>04 April 2001</u> is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 	☐ accepted or b) ☐ objected to I lrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C					
Priority under 35 U.S.C. § 119	·						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of the certified copies.	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage				
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4-4-2001.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a) because they fail to show "terminal 22" (page 12, line 21, page 13, line 1) as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing, MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the terminal (claim 1, lines 10-11; claim 11, line 13; claim 12, line 13) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claims 1, 7, 11, and 12 are objected to because of the following informalities:

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- claims 1, 11, 12, "two digital output signal" (claim 1, line 13; claim 11, lines 15-16; claim 12, lines 15-16) should be -- two digital output signals --.

- claim 7, "an outputs" (line 6) should be - an output --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 11, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Johnson et al. (US 6,587,804).

Regarding claims 1, 11, and 12, Johnson et al. discloses a circuit configuration (Fig. 1), comprising:

- terminals (at Ca0, CCLK) for receiving at least two digital signals (Ca0, CCLK);

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- a calibration circuit (circuitry connected to Ca0, CCLK) connected to said terminals (Fig. 1) and having outputs (outputs of 17, SCLK) outputting at least two digital output signals each derived from one of the digital signals (outputs of 17, 19 are derived or triggered from CCLK, Fig. 1), said calibration circuit effects a temporal control of a switching edge of one of the two digital output signals (23 adjusts delay) using a control value ("delay value" from 25), said calibration circuit containing a storage circuit (25) for storing the control value (column 3, lines 12-14);

- a comparison circuit (21) connected to said outputs and having a terminal for a comparison signal (output terminal of 21) indicating that one of the two digital output signals has a switching edge first relative to another of the two digital output signal (column 2, lines 57-63);

- said calibration circuit has a control input (input to 21) through which the control value can be set using a state of the comparison signal of said comparison circuit (column 3, lines 5-10).

Regarding claim 2, Johnson et al. discloses that said terminal for the comparison signal of said comparison circuit is connected to said control input of said calibration circuit (Fig. 1).

Regarding claim 3, Johnson et al. discloses that the comparison signal indicates with an active state that one of the two digital output signals has a switching edge first relative to the other of the two digital output signals, and said comparison circuit is embodied in

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such a way that the comparison signal has a periodic profile in the active state (column 2, line 63 – column 3, line3).

Allowable Subject Matter

5. Claims 4-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons For Allowance

6. The combination as claimed wherein the comparison signal of said comparison circuit in the active state has a frequency of that output signal whose switching edges temporally precede corresponding switching edges of the other one of the two digital output signals (claim 4) or said comparison circuit has a bistable multivibrator (claim 5) or said calibration circuit has a circuit performing at least one of a filtering function and an integrating function and is connected to said terminal for the comparison signal of said comparison circuit (claim 6) or said delay circuit has an output connected to one of said outputs of said calibration circuit (claim 7) or an inverter circuit disposed and connected between said calibration circuit and said terminals (claim 10) is not disclosed, suggested, or made obvious by the prior art of record.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lee et al. (US 6,735,709) discloses a method for timing calibration of a logic device (Figs. 9's).

Katsumata et al. (US 4,736,189) discloses an apparatus for calibrating an analog-todigital conversion apparatus (Fig. 4).

Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-H from 6:30AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached at (571) 272-2269. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MICHAEL NGHIEM

Michael Nghiem

September 15, 2004